Abstract of the Disclosure

Provided is a method for preparing a Li-Mn-Ni oxide for lithium secondary battery having a а composition $\text{Li}[\text{Ni}_{x}\text{Li}_{(1/3-2x/3)}\text{Mn}_{(2/3-x/3)}\text{O}_{2} (0.05 < X < 0.6), including the steps$ of: a] preparing an aqueous solution by resolving lithium salt, manganese salt and nickel salt into distilled water; b) forming gel by heating the aqueous solution; c) preparing oxide powder by burning the gel; d) performing a first thermal treatment on the oxide powder, and grinding the resultant; and e) performing a second thermal treatment on the resultant powder, and grinding the resultant. The technology of the present invention can prepare a Li-Mn-Ni oxide having a composition of Li[Ni_XLi_(1/3-2x/3)Mn_(2/3-x/3)O₂ (0.05 < X < 0.6) to be used as a cathode material of a lithium secondary battery having a stable and excellent electrochemical characteristics.

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